FIG. 1

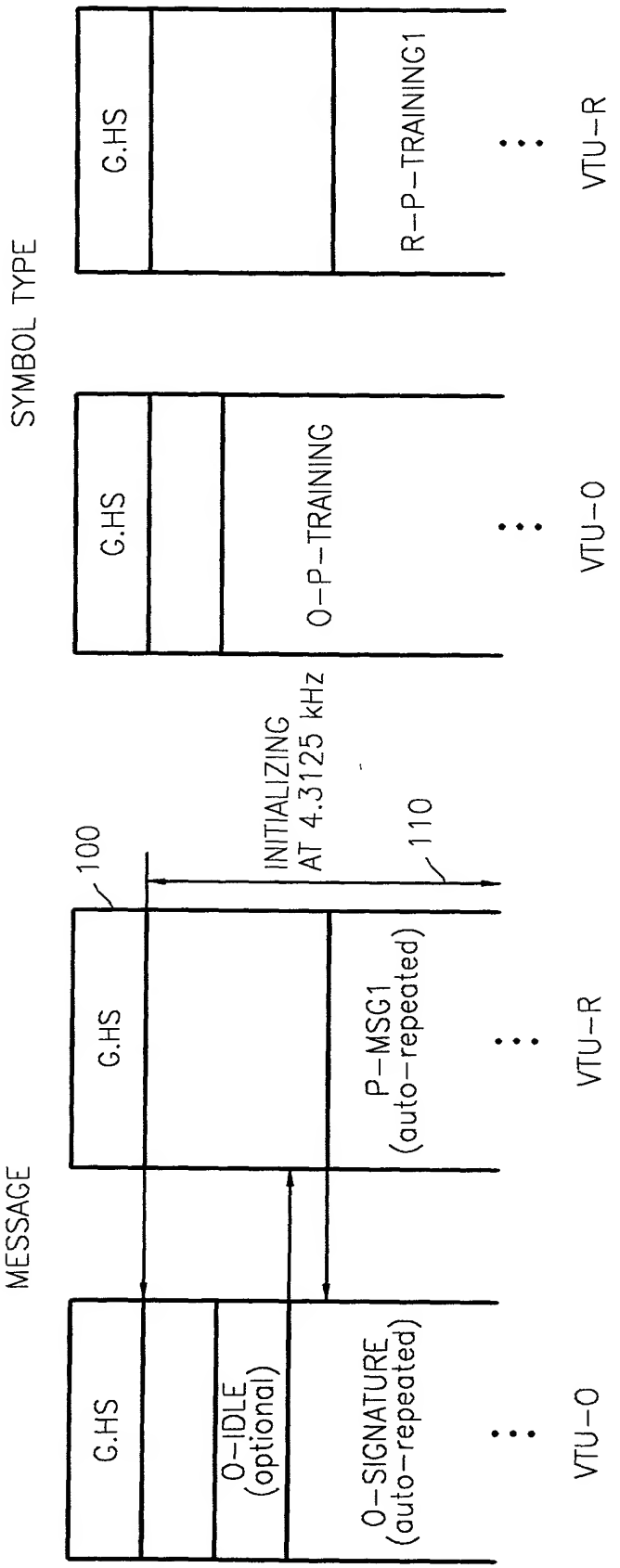

SYMBOL TYPE
MESSAGE
G.HS
O-IDLE (optional)
O-SIGNATURE (auto-repeated)
VTU-O
100
INITIALIZING AT 4.3125 kHz
110
G.HS
P-MSG1 (auto-repeated)
VTU-R
G.HS
O-P-TRAINING
VTU-O
G.HS
R-P-TRAINING1
VTU-R

FIG. 2

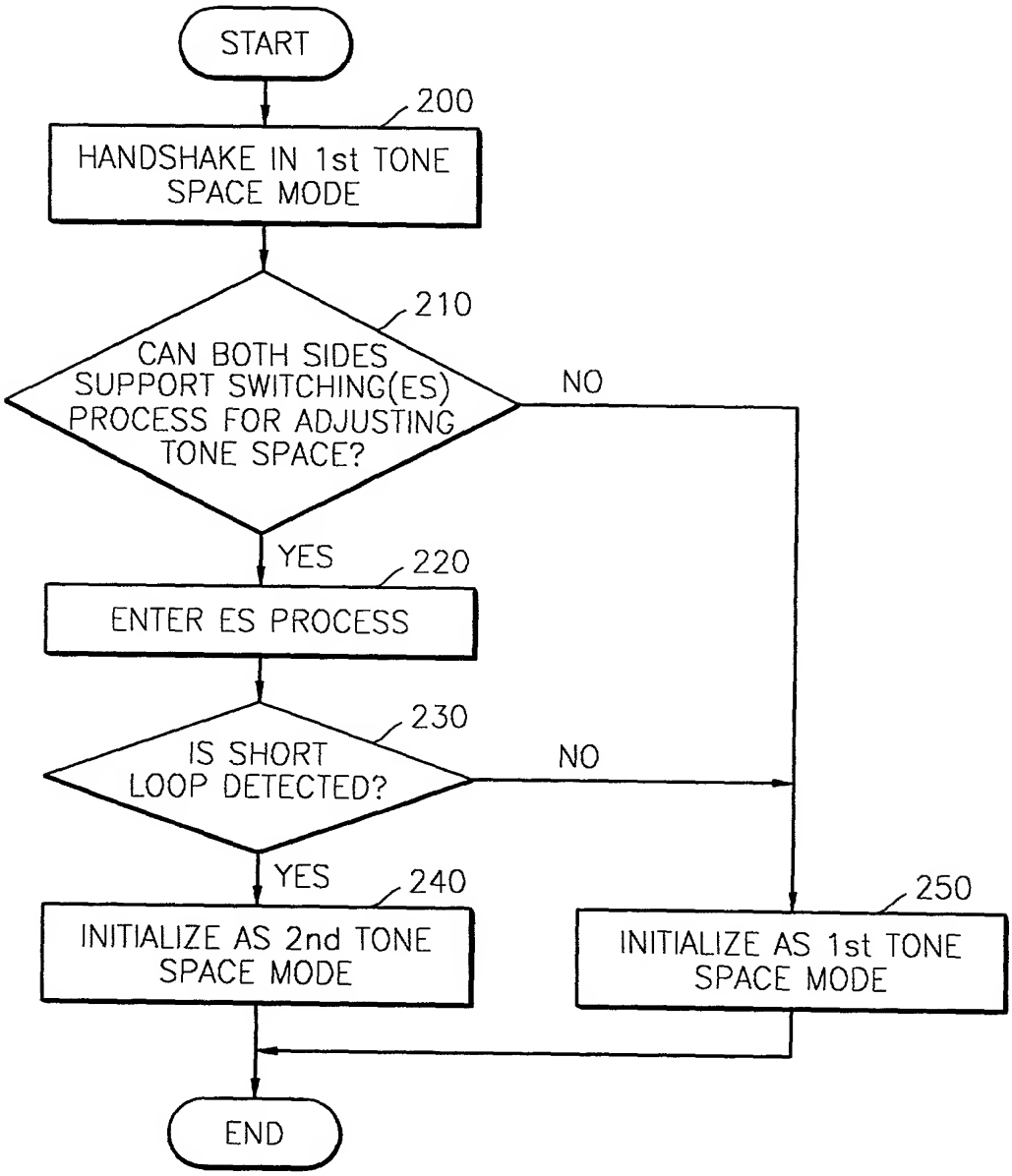

START
200
HANDSHAKE IN 1st TONE SPACE MODE
210
CAN BOTH SIDES SUPPORT SWITCHING(ES) PROCESS FOR ADJUSTING TONE SPACE?
NO
YES
220
ENTER ES PROCESS
230
IS SHORT LOOP DETECTED?
NO
YES
240
INITIALIZE AS 2nd TONE SPACE MODE
250
INITIALIZE AS 1st TONE SPACE MODE
END

FIG. 3

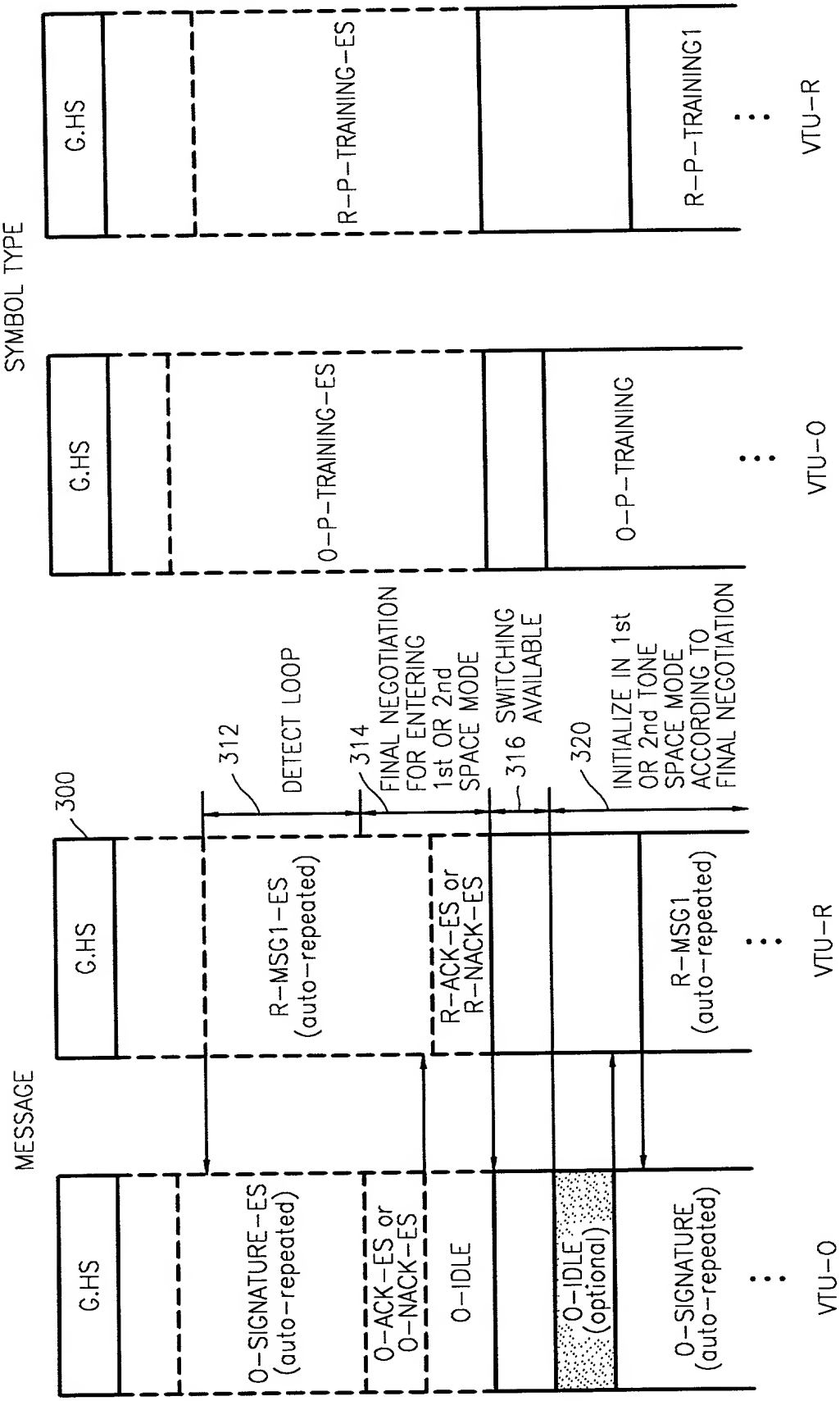
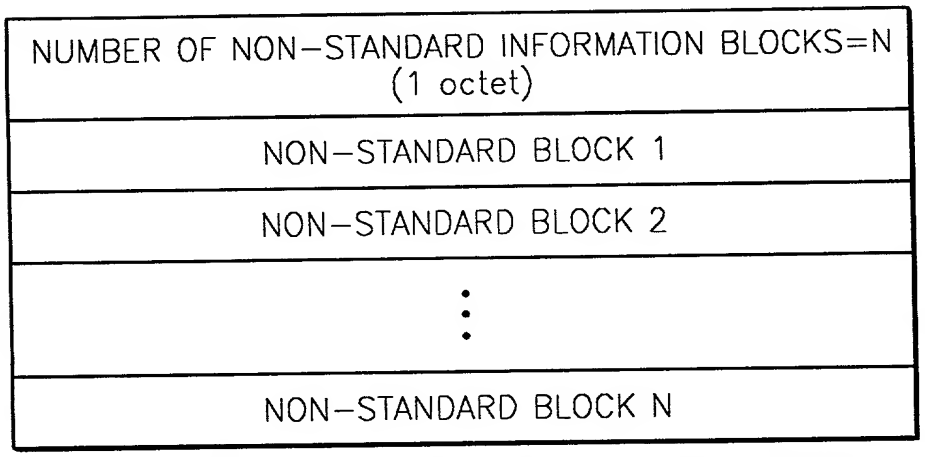
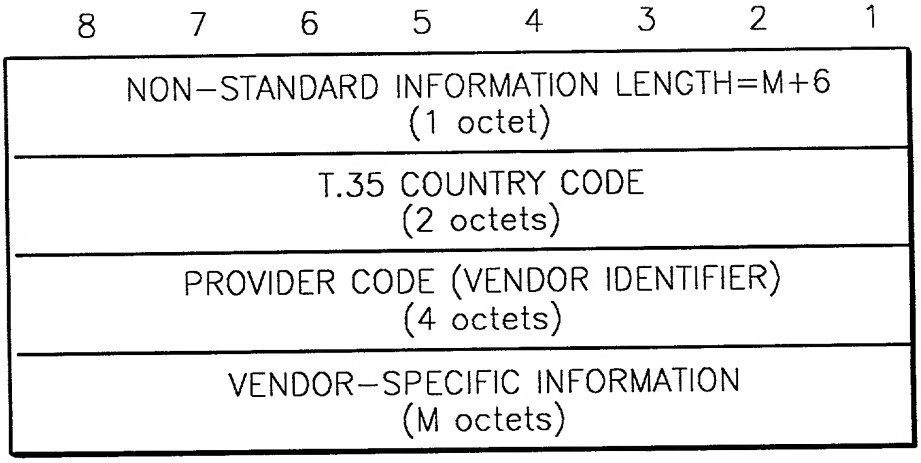

SYMBOL TYPE
MESSAGE
G.HS
O-SIGNATURE-ES (auto-repeated)
O-ACK-ES or O-NACK-ES
O-IDLE
O-IDLE (optional)
O-SIGNATURE (auto-repeated)
VTU-O
300
R-MSG1-ES (auto-repeated)
R-ACK-ES or R-NACK-ES
R-MSG1 (auto-repeated)
VTU-R
312
DETECT LOOP
314
FINAL NEGOTIATION FOR ENTERING 1st OR 2nd SPACE MODE
316 SWITCHING AVAILABLE
320
INITIALIZE IN 1st OR 2nd TONE SPACE MODE ACCORDING TO FINAL NEGOTIATION
O-P-TRAINING-ES
O-P-TRAINING
R-P-TRAINING-ES
R-P-TRAINING1

FIG. 4A



NON-STANDARD INFORMATION FIELD (NS) FORMAT

FIG. 4B



NON-STANDARD INFORMATION BLOCK FORMAT

FIG. 4C

NON-STANDARD INFORMATION FIELD-8.625 kHz MODE CODING

Bits								
8	7	6	5	4	3	2	1	8.625 kHz MODE
1	0	0	0	0	1	1	0	8.625 kHz MODE ID (bits 7 to 14)-Octet 1
1	1	0	0	0	1	b_2	b_1	8.625 kHz MODE ID (bits 1 to 6)-Octet2 (*)

*-b_1 : 8.625 kHz CAPABILITY BIT. b_2 : RESERVATION FOR FUTURE USE

FIG. 5

MESSAGE CODE FOR SOC MESSAGE USED IN ES PROCESS

SOC ESSAGE	MESSAGE CODE
O/R-ACK-ES	0x33 (*)
O/R-NACK-ES	0xCC (*)
O-SIGNATURE-ES	0x31
R-MSGI-ES	0xB1
*-ENTIRE PAYLOAD OF MESSAGE	